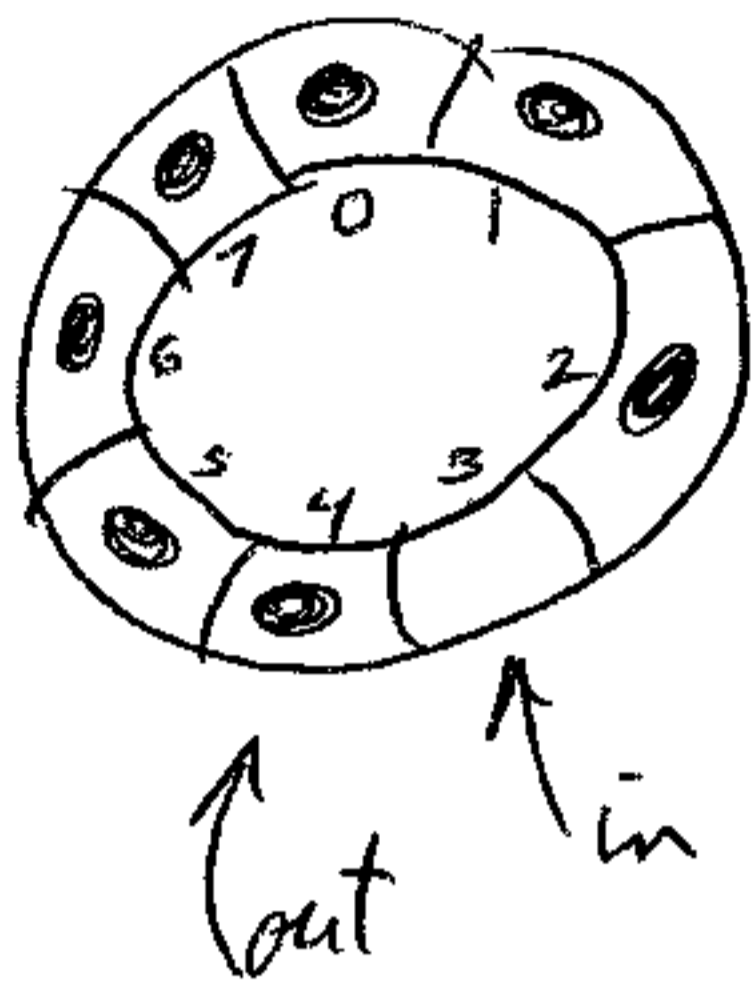


One Solution: Always leave one slot unused

Go only this far: $out = (in + 1) \% BufferSize$



With these conventions & the Producer/Consumer code on pp 118-119 ~~under assumptions~~
We get a correct solution to the problem

It satisfies
Mutual Exclusion
Progress
Bounded Waiting

What if we try an alternate approach to a solution? What if we ~~allow~~ allow all slots to be used and maintain a counter to keep track of how many slots are full?